



Atty. Docket No. 041194-0103

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Birgit C. HOFMANN
Title: NEW GUINEA IMPATIENS PLANT NAMED 'FISUPNIC TALLRED'
Appl. No.: 10/829,348
Filing Date: April 22, 2004
Examiner: Howard J. LOCKER
Art Unit: 1661

**SUBMISSION OF SUBSTITUTE SPECIFICATION
UNDER 37 CFR 1.125 and MPEP § 608.01(q)**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Applicant hereby submits a Substitute Specification in the above-captioned application. Pursuant to 37 CFR 1.125 and MPEP § 608.01(q), Applicant certifies that the Substitute Specification contains no new matter.

Respectfully submitted,

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Substitute Specification
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NEW GUINEA IMPATIENS PLANT NAMED 'FISUPNIC TALLRED'

Genus and species of the plant claimed:

Impatiens hawkeri

Variety denomination:

5 'Fisupnic Tallred'

BACKGROUND OF THE INVENTION

The present invention comprises a new and distinct cultivar of New Guinea *Impatiens*, botanically known as *Impatiens hawkeri*, and hereinafter referred to by the cultivar name 'Fisupnic Tallred'.

10 'Fisupnic Tallred' is a product of a planned breeding program and originated from a hybridization made by the inventor, Birgit C. Hofmann, in a controlled breeding program in Hillscheid, Germany, in the summer of 2000.

The female parent was the variety 'Fisimp 100'(unpatented), characterized by red flowers, medium green foliage, and vigorous growth habit.

15 The male parent was the variety 'Fisimp 171'(U.S. Plant Patent no. 13,703), characterized by dark red and reddish-purple flower color, deep green foliage, and medium sized plant habit.

'Fisupnic Tallred' was discovered and selected as a flowering plant within the progeny of the stated cross made by the inventor in April, 2001, in a greenhouse in
20 Galdar, Can Canaria, Spain.

The first act of vegetative or asexual reproduction of 'Fisupnic Tallred' was accomplished when cuttings were taken from the initial selection in July, 2001, in a controlled environment in Galdar, Gran Canaria, Spain, by, or under the supervision of, Birgit Hofmann.

Horticultural examination of plants grown from these cuttings initiated in the spring of 2002, in Hillscheid, Germany, and continuing thereafter, has demonstrated that the combination of characteristics as herein disclosed for ‘Fisupnic Tallred’ are firmly fixed and are retained through successive generations of asexual reproduction. The new 5 cultivar reproduces true to type.

‘Fisupnic Tallred’ has not been observed under all possible environmental conditions. The phenotype may vary significantly with variations in environment such as temperature, light intensity and day length, without, however, any variation in genotype. The following observations, measurements, and comparisons describe plants grown in 10 Hillscheid, Federal Republic of Germany, under green-house conditions which approximate those generally used in commercial practice.

BRIEF SUMMARY OF THE INVENTION

The following traits have been repeatedly observed and are determined to be basic characteristics of ‘Fisupnic Tallred’, which in combination distinguish this 15 *Impatiens* as a new and distinct cultivar:

1. Brilliant red (with orange-red tones) flower color;
2. relatively large, round, flat flower shape;
3. intense green foliage;
4. vigorous growth, well-branched, wide and rounded plant habit;
5. early to medium flowering response; and
6. suitable for tubs and as outdoor bedding plants.

Of the many commercial cultivars known to the inventor, the most similar in comparison to 'Fisupnic Tallred' is the patented variety 'Fisnics Red' (U.S. Plant Patent No.13,226), and the parental variety 'Fisimp 171'.

In comparison to 'Fisnics Red', 'Fisupnic Tallred' has somewhat larger flowers 5 (larger diameter by 5 mm) and a medium red (with red-orange tones)_flower color (RHS 44A to RHS 45A), while 'Fisnics Red' has a darker red flower color (RHS 45A to RHS 46B, fading to RHS 46B and RHS 46C), slightly deeper green foliage color, larger leaves, and generally taller plant habit (taller in height by 7.5 cm).

In comparison to the parental variety 'Fisimp 171', 'Fisupnic Tallred' has a 10 medium red (with orange-red tones) flower color (RHS 44A to RHS 45A), while 'Fisimp 171' has a darker red and somewhat reddish-purple flower color (RHS 46B and RHS 57B, fading to 57D). 'Fisupnic Tallred' has a medium green foliage color, not quite as deep green as 'Fisimp 171', and 'Fisupnic Tallred' has mainly green stems, while 'Fisimp 171' has red-purple branches.

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BRIEF DESCRIPTION OF THE DRAWING

The accompanying photographic drawing shows typical flower and foliage characteristics of 'Fisupnic Tallred' with colors being as true as possible with illustrations of this type. The photographic drawing shows a side view of a typical flowering plant of 'Fisupnic Tallred'.

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DETAILED BOTANICAL DESCRIPTION

In the following description color references are made to the Royal Horticultural Society Colour Chart (RHS). The color values were determined indoors from plants growing in a greenhouse in May 2003, Hillscheid, Germany. The description is based on

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plants which were planted as rooted cuttings in 12 cm pots in late February 2003, and then grown in a greenhouse at a minimum temperature of 16°C. Most observations and measurements were made after the beginning of flowering in mid May, when the plants were about 12 weeks old.

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PLANT:

General appearance and form:

Plant habit: Tall, uniformly mounded, well-branched (self-branching), but only moderately tight; growth is indeterminate, though weak after begin
10 of flowering

Height: 20.0 cm

Width: 37.5 cm

Number of branches: Approximately 12

Internode length: 40-55 mm

15 Length of branches: 14-16 cm

Diameter of branches: 6-8 mm

Stem color: Mainly light green, RHS 145 B-C, brownish at the nodes

Propagation: Terminal shoot tips for cuttings

Rooting: Roots initiate in about 18 days at 22° C, from sticking to
20 transplanting

Cultivation time: To produce a marketable flowering plant in a 12 cm pot takes
about 10 weeks of growing time

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FOLIAGE:

Arrangement: Primarily in whorls

Shape: Elliptic, with acute base and acute to acuminate tip, surface somewhat rippled, most often glossy

5 Margin: Serrulated, ciliated

Length: 11.3 cm

Width: 4.0 cm

Upper surface, main color: Medium green, no variegation;
Mature leaves RHS 137 A;

10 young leaves between RHS 141 B and RHS 141 C

Lower surface, main color: Light green, about RHS 138 B (both mature and young leaves

Veins on upper surface, color: Pale green, RHS 145 A

Veins on lower surface, color: Pale green, between RHS 145 B to RHS 145 C

15 Petiole: 25- 30 mm in length, 3 mm in diameter; upper side color RHS 48B, lower side RHS 145 C

INFLORESCENCE:

Flowering response: 9-10 weeks after planting of rooted cuttings

20 Flowering season: Generally from March to October, depending on light intensity

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Flower:

Number of flowers and arrangement per lateral branch: Usually 6-8
flowers and flower buds, in various stages of development. Flowers appear at the upper nodes and at the terminal node and are positioned above and beyond the foliage and typically face upward or outward.

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Flower longevity: Flowers last about 8 to 9 days on the plant.

Fragrance: Flowers not fragrant.

Form of corolla: Single-type, 5 petals

Shape of corolla: Nearly round, with the petals overlapping, almost flat

10 Average length: 75 mm

Average width: 72 mm

Shape of petals: Cordate, at the top end weak to moderate lobes, top petal 28 mm long, 44 mm wide; lateral petals 32 mm long, 33 mm wide; lower petals 30 mm long, 40 mm wide

15 Texture: Smooth, velvety

Aspect: Flat

Color (general tonality from a distance of three meters): Uniform, brilliant red

Color of upper surface: Red, between RHS 44 A and RHS 45 A
(including eye zone)

20 Color of lower surface: Orange-red, RHS 43 B

Spur color: Deep pink, closest to RHS 53 C (red group)

Spur shape and size: Downwardly curved, about 70 mm long, 3 mm in diameter
at the flower end

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Pedicel color: Light green , RHS 145 B, partly brownish infused,
RHS 179 B

Pedicel length: 50-55 mm, 2 mm in diameter

Flower bud: Ovoid shape, 23 mm in length, 15 mm in diameter;
5 color RHS 45 C

REPRODUCTIVE ORGANS:

Androecium:

Stamens: 5 in number, fused, upper surface color is RHS 43 C
10 Anthers: Fused, hooded

Pollen: Moderate (typical), whitish-yellow, about RHS 8 D

Gynoecium :

Style and stigma: Five in number, very short, colorless, near RHS 150 D

Ovary: 5-celled, 5 mm long, surface color green RHS 137 A

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Seed/fruit: Seed and fruit development have not been observed.

Disease/pest resistance/susceptibility: Plant of the new *Impatiens* cultivar have not
been observed to be resistant or more susceptible to pathogens and pests common
20 to *Impatiens*.